|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Input supply | Production | Trading | Processing | Marketing | Consumption |
| Actors | * Breeders * Breeding and veterinary care * Feed retailers * Extensionists * Credit institutions * Feed processors * Private seed companies | * Smallholder farmers * Commercial farmers | * Transporters * Cooperatives * Private companies | * Processors * Farmers | * Private dairy outlets * Cooperatives * Producers (farms gate) | * Hotels/restaurants * Producers * Supermarkets * Calves |
| Activities | * Supply of breeding animals * AI, vaccinations, heath care * Seed supply * Feed processing * Selling of feed * Giving loans * Training | * Dairy cattle management and production * Market linkages | * Transporting milk * Quality assessment * Buying and selling | * Milk chilling * Pasteurization * Packaging * Products making * Quality assessment | * Selling * Retailing * Transporting * Quality assessment | * Quality assessment |
| Inputs | * Semen * Bulls * Feed ingredients * Land * Labour * Seed * Drugs * Farms inputs and equipment * Finance * Information | * Land * Labour * Feed/fodder * Breeds * Vet drugs and vaccines * Finance * Housing * Training and information | * Transport * Infrastructure (telecommunication, energy, roads etc.) * Cold chain trucks * Equipment for quality assurances * Labour | * Chilling machines * Packing machinery * Energy e.g. electricity | * Transport * Market information |  |
| Outputs | * Improved heifers * Quality feed and fodder * Forage seed availability * Improved feed related services * Improved AI and veterinary services * Improved cash flow | * Increased mil production * Improved quality of milk * Improve calf health | * Increased income |  |  |  |
| Constraints |  |  |  |  |  |  |
| Opportunities |  |  |  |  |  |  |
| Potential solutions/ interventions |  |  |  |  |  |  |